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Title: Georgia Tech Junior Faculty DoD/DOE Proposal Panel

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Intended for: Informational visit to Georgia Tech to participate in panel for Junior

Faculty

Issued: 2017-04-04





Georgia Tech Junior Faculty DoD/DOE Proposal Panel

Jennifer L. Jordan
Shock and Detonation Physics Group

April 14, 2017

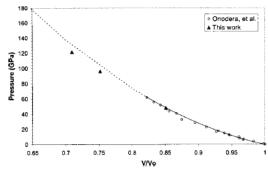
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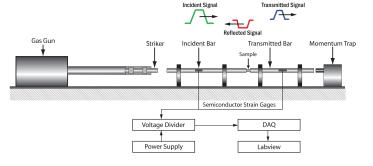


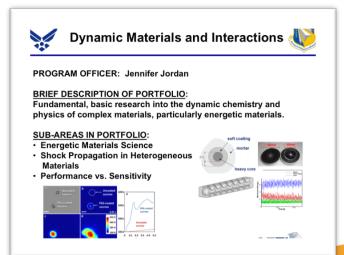
Background

- 2003 Materials Science and Engineering PhD from Georgia Tech
- 2003-2009 Mechanical Properties Laboratory, Energetic Materials Branch, Air Force Research Laboratory
- 2009-2013 Technical Advisor, Energetic Materials Branch, Air Force Research Laboratory
- 2013-2016 Dynamic Materials and Interactions Program Officer, Air Force Office of Scientific Research
- 2016-? Group Leader, Shock and Detonation Physics, Los Alamos National Laboratory

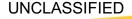














AFOSR Funding Opportunities



- AFOSR invites proposals in broad research areas through the general Broad Agency Announcement (BAA) and other program specific BAAs.
 - All proposals go through peer or scientific review process
 - Grants are selected for award on a competitive basis
- To apply visit www.grants.gov
 - Search all AFOSR opportunities with the key word "AFOSR" or by CDFA numbers 12.800, 12.630 and 12.910
 - Go directly to the 2015 BAA by visiting

http://www.grants.gov/web/grants/view-opportunity.html?oppId=276388

- The BAA is organized by topic
- All application forms and instructions are provided on the site, but should you have questions contact the appropriate POC listed on the BAA





OSD University Research Initiatives (URI)



- Defense University Research Initiative Program (DURIP)
 - Improve the capabilities of U.S. institutions of higher education to conduct research and to educate scientists and engineers in areas important to national defense by providing funds for acquisition of research equipment.
 - 1-time grants up to \$1.5M for instrumentation
 - FY16: \$17M

Currently posted – deadline July 7, 2017

- Multidisciplinary University Research Initiatives (MURI)
 - ONR Leads, publishes FOA
 - 5-year grants, \$500K 1st year, \$1.5M after
 - Air Force: 8 Topics/Year

Currently posted – deadline November 1, 2017





Early Career Programs



Young Investigator Research Program (YIP)

- Supports scientists and engineers who have received Ph.D. or equivalent degrees in the last five years and show exceptional ability and promise for conducting basic research.
- FY17 PhD received 1 April 2011 or later; US citizen, national, or permanent resident
- \$120K/yr x 3 years (up to 5) each
- FY16: 57 (\$16.2M)

Expected to post mid-April

- Presidential Early Career Award for Scientists and Engineers (PECASE)
 - Recognizes exceptional potential for leadership at the frontiers of scientific knowledge
 - Air Force nominates 4-6 per year
 - \$200K/yr x 5 years
 - White House OSTP makes final selection





Resident Research Programs



AFRL Resident Research Associate Program

- Administered by the National Research Council (NRC)
- Provides Postdoctoral Scientist and Engineer opportunities at
 - AFRL Technical Directorates, AFIT, Air Force Academy
- 12-month duration, renewable up to 3 years
- Four selection panels per year
- Currently 84 Associates

Summer Faculty Fellowship Program (SFFP)

- 8-12 weeks of research experience for up to 150 faculty, 75 Grad
 Students
 - AFRL Technical Directorates, AFIT, USAFA
- Faculty can bring graduate students (up to 75)





Explore AFOSR



APAN Collaboration Website

- Presentations
- Portfolio descriptions
- Upcoming events
- Funding opportunities
- Other social media sites
 - Facebook, Twitter, YouTube



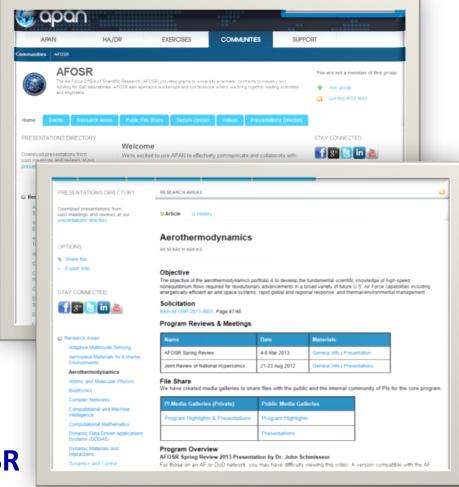
www.facebook.com/afosr



www.twitter.com/afosr



www.youtube.com/TheAFOSR





OPOO https://community.apan.org/afosr



DOE - Stewardship Science Academic Programs (SSAP)

- Academic research in: of materials under extreme conditions, low energy nuclear science, radiochemistry, and high energy density physics
- Important focus provide hands-on training and experience to students in areas of interest in stewardship science
- https://nnsa.energy.gov/aboutus/ourprograms/de fenseprograms/stockpilestewardship/upaa/ssaa





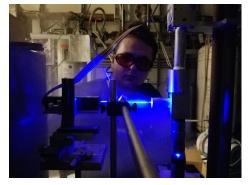


Academic Alliances Programs Stewardship Science Academic Alliances



- Addresses a national problem but focused on our National Nuclear Security Enterprise mission
- Supports grants and cooperative agreements in areas vital to NNSA's mission success
 - Materials under Extreme Conditions
 - High Energy Density Physics
 - Low Energy Nuclear Science
 - Radiochemistry

COE call currently posted, closes 30
Apr 2017



- 8 Centers of Excellence and 46 grants support hundreds of faculty, researchers, post-docs, graduate and undergraduate students
- Stewardship Science Academic Alliances (SSAA) Program, established in 2002, is a great success!





Student Opportunities

- DOE NNSA Stewardship Science Graduate Fellowship (https://www.krellinst.org/ssgf/)
- DoD SMART Fellowship (<u>https://smart.asee.org/)</u>



